

**GEOTECHNICAL CONTRACTOR PREQUALIFICATION REQUIREMENTS
(REVISED 3/1/10)**

Geotechnical contractors shall submit at least one key person per role for each work code and documentation verifying the following requirements.

- Contractor has successfully completed at least 5 projects within the last 3 years for each work code
- Experience/equipment meet the miscellaneous requirements, if applicable, for each work code
- Key personnel meet the registration/certification required, if applicable
- Key personnel meet the years of experience required

Documentation should include project lists and descriptions including names and current contact information of general contractors and owners, resumes, references, certificates, experience descriptions and details, etc. For PDA and CSL work (work codes 3060 and 3065), also submit 2 example reports for each work code in accordance with the miscellaneous requirements. For questions about these prequalification requirements, contact Scott Hidden, P.E. or Mohammed Mulla, P.E. of the Geotechnical Engineering Unit at (919) 250-4088.

Work Code	Work Code Description	Type of Work	Key Personnel Required	Registration/Certification Required*	Years of Experience Required	Miscellaneous Requirements
070	Rock Blasting	Production, Cushion or Trim, Trench and Secondary Blasting and Pre-splitting	Blaster-in-Charge	---	5	
075	Rock Slope Stabilization	Rock Bolts, Horizontal Drains, Slope Scaling, Rockfall Netting and Fences	Project Manager	---	5	Successful completion of at least 150 tensioned rock bolts within the last 3 years Equipment to access steep slopes
			Superintendent	---	5	
3020	Retaining Walls (Anchored)	Anchored and Soil Nail Retaining Walls	Project Manager	---	5	Successful completion of at least 10,000 ft ² of wall face area with a minimum of 150 anchors (e.g., ground, helical, etc.) and/or 500 soil nails within the last 3 years
			Superintendent	---	5	
3030	Foundations for Highway Signs, Luminaries and Traffic Signals		Project Manager	---	5	Experience with drilled pier construction including dry and wet placement of concrete and the use of casing or slurry
			Superintendent	---	5	
3040	Contaminated Materials Removal	Hazardous and Non-hazardous Materials	Superintendent	OSHA	5	Experience with handling, transporting and delivering contaminated soil and groundwater to a certified facility
3045	Drilling for GeoEnvironmental Investigations	Monitoring Wells and Soil and Groundwater Sampling	Lead Driller	NC Certified Well Contractor	3	Experience with air rotary, auger or direct push drilling on contaminated sites
3050	Drilling for Geotechnical Investigations		Lead Driller	NC Certified Well Contractor	3	Equipment to access wooded and overgrown areas, obtain N and H size cores and drill 120 ft auger borings and 200 ft mud borings
3060	Pile Driving Analyzer (PDA)		Project Engineer	P.E. & HSDPT – Advanced Level or Higher	5	Experience with PDA and CAsE Pile Wave Analysis Program (CAPWAP), version 2006 or later, manufactured by Pile Dynamics, Inc. 2 examples of PDA testing with CAPWAP analysis for 1 steel pile and 1 prestressed concrete pile
			Field Engineer	HSDPT – Basic Level or Higher	1	
3065	Crosshole Sonic Logging (CSL)		Project Engineer	P.E.	5	2 examples of CSL testing for 2 different projects with drilled piers a minimum of 42” in diameter and at least 4 CSL tubes per pier
			Field Engineer	---	1	
3070	Non-Destructive Foundation Testing	Low Strain Integrity, Gamma-Gamma Density Logging, Ultra and Parallel Seismic Testing, etc.	Project Engineer	P.E.	5	
3080	Foundation Testing	Drilled Shaft Inspection Device (SID), Caliper Logging and Static, Osterberg, Statnamic and APPLE Load Testing	Project Engineer	P.E.	5	
3090	Drilled Piers		Project Manager	---	5	Experience with drilled piers a minimum of 36” in diameter, dry and wet placement of concrete and the use of temporary casing or slurry
			Superintendent	---	5	
3100	Micropiles		Project Manager	---	5	Successful completion of at least 250 micropiles within the last 3 years
			Superintendent	---	5	
3110	Continuous Flight Auger (CFA) Piles		Project Manager	---	5	Successful completion of at least 250 CFA piles within the last 3 years and experience with automated monitoring and recording equipment
			Superintendent	---	5	

* Registration as a Professional Engineer (P.E.) in North Carolina is required. High Strain Dynamic Pile Testing (HSDPT) certification by Foundation QA in Croydon, Victoria, Australia will be required effective January 1, 2011. For HSDPT Registration information, go to www.hsdptregister.org.

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Work Code	Work Code Description	Type of Work	Key Personnel Required	Registration/Certification Required*	Years of Experience Required	Miscellaneous Requirements
3120	Vibration & Noise Monitoring	Vibration and Noise Monitoring and Pre/Post-blast or Pre/Post-construction Surveys	Project Engineer	P.E.	5	
3125	Structure Movement Monitoring		Project Surveyor	P.L.S.	3	Experience with monitoring land or structure movement, displacement, deformation, settlement, subsidence, etc. Equipment to repeatedly measure centimeter movement
3130	Ground Improvement Methods	Vertical Drains, Dynamic Compaction, Stone Columns, Grouting, etc.	Project Manager	---	5	
			Superintendent	---	5	

* Registration as a Professional Engineer (P.E.) or Professional Land Surveyor (P.L.S.) in North Carolina is required.